

[FIG.1]

TRANSMIT DATA

101 CODING SECTION

102 MODULATION SECTION

5 103 SUBCARRIER ALLOCATION SECTION

ADJACENT CHANNEL INTERFERENCE WAVE RECEPTION LEVEL

104 OFDM SECTION

105 AMPLIFIER

107 FFT SECTION

10 108 DEMODULATION SECTION

109 TRANSMISSION POWER CONTROL SECTION

RECEIVE DATA

[FIG.2]

15 TRANSMIT DATA

201 INTERLEAVER

202 CONVOLUTIONAL CODING SECTION

203 CONVOLUTIONAL CODING SECTION

TO MODULATION SECTION 102

20

[FIG.3]

ADJACENT CHANNEL INTERFERENCE WAVES

ADJACENT CHANNEL INTERFERENCE WAVES

FREQUENCY

25

[FIG.4]

TRANSMIT DATA

101 CODING SECTION

102 MODULATION SECTION
 103 SUBCARRIER ALLOCATION SECTION
 ADJACENT CHANNEL INTERFERENCE WAVE RECEPTION LEVEL
 401 SPREADING SECTION
 5 SPREADING CODE
 104 OFDM SECTION
 105 AMPLIFIER
 107 FFT SECTION
 108 DEMODULATION SECTION
 10 109 TRANSMISSION POWER CONTROL SECTION
 402 DESPREADING SECTION
 RECEIVE DATA

[FIG.5]

15 FREQUENCY
 #5m m'th chip of signals k+1 through k of time T
 m'th chip of signals k+1 through 2k of time 2T
 #4m+1 1st chip of signals k+1 through 2k of time T
 20 1st chip of signals k+1 through 2k of time 2T
 #4m m'th chip of signals 3k+1 through 4k of time T
 m'th chip of signals 3k+1 through 4k of time 2T
 #3m+1 1st chip of signals 3k+1 through 4k of time T
 25 1st chip of signals 3k+1 through 4k of time 2T
 #3m m'th chip of signals 2k+1 through 3k of time T
 m'th chip of signals 2k+1 through 3k of time 2T

#2m+1 1st chip of signals 2k+1 through 3k of time T
 1st chip of signals 2k+1 through 3k of time 2T
 #2m m'th chip of signals 4k+1 through n of time T
 m'th chip of signals 4k+1 through n of time 2T

5

#m+1 1st chip of signals 4k+1 through n of time T
 1st chip of signals 4k+1 through n of time 2T
 #m m'th chip of signals 1 through k of time T
 m'th chip of signals 1 through k of time 2T

10

#1 1st chip of signals 1 through k of time T
 1st chip of signals 1 through k of time 2T

TIME

15 [FIG. 6]

ADJACENT CHANNEL INTERFERENCE WAVES
 ADJACENT CHANNEL INTERFERENCE WAVES
 FREQUENCY

20 [FIG. 7]

TRANSMIT DATA

101 CODING SECTION

701a MODULATION SECTION

701b MODULATION SECTION

25 RSSI SIGNAL

702 CONTROL SECTION

103 SUBCARRIER ALLOCATION SECTION

ADJACENT CHANNEL INTERFERENCE WAVE RECEPTION LEVEL

104 OFDM SECTION
105 AMPLIFIER
107 FFT SECTION
108 DEMODULATION SECTION
5 109 TRANSMISSION POWER CONTROL SECTION
RECEIVE DATA

[FIG.8]

RSSI SIGNAL

10 801 FIRST DETERMINATION CONTROL SECTION
TO MODULATION SECTION 701a
802 SECOND DETERMINATION CONTROL SECTION
TO MODULATION SECTION 701b

15 [FIG.9]

RSSI SIGNAL

901 CONTROL SECTION

TRANSMIT DATA

101 CODING SECTION

20 ADJACENT CHANNEL INTERFERENCE WAVE RECEPTION LEVEL

902 CONTROL SECTION

701a MODULATION SECTION

701b MODULATION SECTION

103 SUBCARRIER ALLOCATION SECTION

25 ADJACENT CHANNEL INTERFERENCE WAVE RECEPTION LEVEL

104 OFDM SECTION

105 AMPLIFIER

107 FFT SECTION

108 DEMODULATION SECTION
109 TRANSMISSION POWER CONTROL SECTION
RECEIVE DATA

5 [FIG.10]

TRANSMIT DATA

1001 S/P CONVERSION SECTION

USER INFORMATION

103 SUBCARRIER ALLOCATION SECTION

10 ADJACENT CHANNEL INTERFERENCE WAVE RECEPTION LEVEL

104 OFDM SECTION

105 AMPLIFIER

107 FFT SECTION

108 DEMODULATION SECTION

15 109 TRANSMISSION POWER CONTROL SECTION

RECEIVE DATA

[FIG.11]

TRANSMIT DATA

20 101 CODING SECTION

1101 INTERLEAVING SECTION

1102 INTERLEAVING SECTION

102 MODULATION SECTION

103 SUBCARRIER ALLOCATION SECTION

25 ADJACENT CHANNEL INTERFERENCE WAVE RECEPTION LEVEL

104 OFDM SECTION

105 AMPLIFIER

107 FFT SECTION

108 DEMODULATION SECTION
109 TRANSMISSION POWER CONTROL SECTION
RECEIVE DATA

5 [FIG.12]

ADJACENT CHANNEL INTERFERENCE WAVES
ADJACENT CHANNEL INTERFERENCE WAVES
FREQUENCY

10 [FIG.13]

TRANSMIT DATA

101 CODING SECTION

102 MODULATION SECTION

103 SUBCARRIER ALLOCATION SECTION

15 ADJACENT CHANNEL INTERFERENCE WAVE RECEPTION LEVEL
INFORMATION

NULL SIGNAL

1301 SELECTION SECTION

20 RSSI SIGNAL

104 OFDM SECTION

105 AMPLIFIER

107 FFT SECTION

108 DEMODULATION SECTION

25 109 TRANSMISSION POWER CONTROL SECTION
RECEIVE DATA

[FIG.14]

MAIN LOBE

FREQUENCY

[FIG.15]

5 FREQUENCY

[FIG.16]

NULL SIGNAL TRANSMITTED

FREQUENCY

10

[FIG.17]

TRANSMIT DATA

101 CODING SECTION

102 MODULATION SECTION

15 103 SUBCARRIER ALLOCATION SECTION

ADJACENT CHANNEL INTERFERENCE WAVE RECEPTION LEVEL

INFORMATION

NULL SIGNAL

20 1701 SELECTION SECTION

DELAY DISTRIBUTION INFORMATION

104 OFDM SECTION

105 AMPLIFIER

107 FFT SECTION

25 108 DEMODULATION SECTION

109 TRANSMISSION POWER CONTROL SECTION

RECEIVE DATA

[FIG.18]

RECEIVE DATA

1801 DELAY CIRCUIT

1802 SUBTRACTION CIRCUIT

5 1803 ABSOLUTE VALUE GENERATION CIRCUIT

1804 AVERAGING CIRCUIT

DELAY DISTRIBUTION INFORMATION

[FIG.19]

10 TRANSMIT DATA

101 CODING SECTION

102 MODULATION SECTION

103 SUBCARRIER ALLOCATION SECTION

ADJACENT CHANNEL INTERFERENCE WAVE RECEPTION LEVEL

15 INFORMATION

NULL SIGNAL

1901 SELECTION SECTION

RECEPTION LEVEL INFORMATION

20 104 OFDM SECTION

105 AMPLIFIER

107 FFT SECTION

108 DEMODULATION SECTION

109 TRANSMISSION POWER CONTROL SECTION

25 RECEIVE DATA

[FIG.20]

TRANSMIT DATA

101 CODING SECTION
102 MODULATION SECTION
103 SUBCARRIER ALLOCATION SECTION
ADJACENT CHANNEL INTERFERENCE WAVE RECEPTION LEVEL
5 INFORMATION

NULL SIGNAL

2001 SELECTION SECTION

104 OFDM SECTION

10 105 AMPLIFIER

107 FFT SECTION

108 DEMODULATION SECTION

109 TRANSMISSION POWER CONTROL SECTION

RECEIVE DATA

15

[FIG.21]

NULL SIGNAL TRANSMITTED

NULL SIGNAL TRANSMITTED

FREQUENCY

20